**Supplementary table 4.** Univariable and multivariable regression analysis

for insomnia symptoms and insomnia subtypes in women

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|  | **Multivariable analysis ORs** |
|  | IS | DIS | DMS | EMA |
|  | OR (95%Ci) | p-value | OR (95%Ci) | p-value | OR (95%Ci) | p-value | OR (95%Ci) | p-value |
| **Age** **(40 years or older)** | 1.195(0.764-1.869) | 0.435 | 1.191(0.684-2.074) | 0.536 | 1.165(0.683-1.989) | 0.576 | 1.620(0.922-2.846) | 0.093 |
| **Size of residential area** **(Large city)** | 0.811(0.559-1.176) | 0.269 | 0.735(0.465-1.163) | 0.188 | 0.762(0.486-1.196) | 0.237 | 0.808(0.515-1.267) | 0.353 |
| **Education****(Middle school** **or less)** | 1.473(0.877-2.473) | 0.143 | 1.532(0.826-2.840) | 0.176 | 1.176(0.628-2.203) | 0.612 | 1.771(0.991-3.166) | 0.054 |
| **Sleep duration** **(6 hours** **or shorter)** | 2.282(1.501-3.471) | <0.001 | 3.147(1.944-5.097) | <0.001 | 2.395(1.466-3.912) | <0.001 | 3.345(2.099-5.329) | <0.001 |
| **Anxiety** | 6.024(3.935-9.222) | <0.001 | 4.685(2.817-7.792) | <0.001 | 5.187(3.169-8.488) | <0.001 | 4.267(2.538-7.174) | <0.001 |
| **Depression** | 6.798(3.761-12.290) | <0.001 | 8.119(4.366-15.097) | <0.001 | 7.796(4.243-14.328) | <0.001 | 4.763(2.485-9.130) | <0.001 |
| **Monthly income****(<2,000 dollar)** | 1.122(0.668-1.885) | 0.663 | 1.467(0.807-2.668) | 0.209 | 1.623(0.896-2.941) | 0.110 | 1.142(0.633-2.060) | 0.660 |
| **Occupation****(unemployed)** | 1.506(0.795-2.852) | 0.209 | 1.424(0.636-3.191) | 0.390 | 1.445(0.666-3.135) | 0.351 | 1.094(0.445-2.688) | 0.844 |

Subject with missing data was excluded from the analysis.

*p* was calculated by the univariable / multiple logistic regression analysis.

*Abbreviations*: OR = odds ratio, CI = confidence interval, IS = Insomnia Symptoms, DIS = Difficulty in Initiating Sleep, DMS = Difficulty in Maintaining Sleep, EMA = Early Morning Awakening

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